

Message Text

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ACTION EUR-12

INFO OCT-01 ISO-00 SOE-02 AID-05 CEA-01 CIAE-00
COME-00 DODE-00 EB-08 H-01 INR-10 INT-05 L-03
NSAE-00 NSC-05 OMB-01 PM-05 ICA-11 OES-09 SP-02
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P 111620Z AUG 78
FM AMEMBASSY ROME
TO SECSTATE WASHDC PRIORITY 4486
USDOE WASHDC PRIORITY

LIMITED OFFICIAL USE SECTION 1 OF 2 ROME 14827

DOE FOR BORRE VANDERRYN, ALBERT AND ROBERTSON (IA)

PASS ALSO USDOC

E.O. 11652: NA
TAGS: TECH, IT, ENRG
SUBJ: U.S.-ITALY BILATERAL COOPERATION: SOLAR VISIT

REF: ROME 13997

1. THE MISSION HAS RECEIVED FROM THE GOI A NOTE OUTLINING THE INTERESTS OF THE ITALIAN EXPERTS WHO WILL BE VISITING THE U.S. SEPTEMBER 6-15 (SEPT. 7 FIRST WORKING DAY). IT IS OUR UNDERSTANDING THAT THIS VISIT SHOULD BE VIEWED AS PART OF THE PROCESS OF FINDING COOPERATIVE SOLAR EFFORTS, INCLUDING VARIOUS TYPES OF INFORMATION EXCHANGE AS WELL AS WHAT THE ITALIANS CALL QTE TASK-SHARING UNQTE PROJECTS. IT IS, HOWEVER, CLEARLY UNDERSTOOD THAT DECISIONS ON SUCH PROJECTS ARE NOT TO BE TAKEN DURING THE VISIT OR EVEN DURING THE SUBSEQUENT VISIT OF MINISTER OF INDUSTRY DONAT-CATTIN, BUT DURING THE NEXT MEETING OF THE BILATERAL ENERGY WORKING GROUP (AS YET UNSCHEDULED).

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2. THERE FOLLOWS THE COMPLETE TEXT OF THE ITALIAN NOTE:
QTE. SOLAR ENERGY. ATTACHED IS A LIST OF TOPICS PROPOSED BY DIFFERENT ITALIAN INSTITUTIONS TO BE DISCUSSED DURING THE PROJECTED VISIT OF ITALIAN EXPERTS TO THE U.S. NEXT SEPTEMBER.
IT IS THE AIM OF THE ITALIAN DELEGATION TO FIND - WITHIN THESE TOPICS OR OTHER PROPOSED BY U.S. COUNTERPARTS - POSSIBLE COOPERATIVE ACTIVITIES.

THERE IS NO INDICATION OF THE U.S. LABORATORIES, INDUSTRIES, ETC. WHERE THE VISIT OF THE ITALIAN EXPERTS IS CONSIDERED AS MOST APPROPRIATE ALTHOUGH SOME ITALIAN INSTITUTIONS HAVE EXPRESSED SPECIAL INTEREST TO VISITING THE FOLLOWING U.S. LABORATORIES: SANDIA, ALBUQUERQUE; SANDIA, LIVERMORE; JPL, PASADENA; NASA: LEWIS RESEARCH CENTER AND SERI.

TOPICS PROPOSED BY

A. LOW TEMPERATURE APPLICATIONS

A. METHODOLOGY OF TESTING FOR PHOEBUS - AGIP
HEATING AND COOLING: COMPONENTS
AND SYSTEMS.

B. COOLING MACHINES DEVELOPMENTS TERMOMECCANICA - AGIP
AND APPLICATIONS. PHOEBUS - ANSALDO

C. SOLAR DESALINATION: TECHNOLOGY PHOEBUS - AGIP
AND ECONOMICS TERMOMECCANICA

D. HEATING AND COOLING COMPUTER CTIP - SOLAR
SIMULATION AERIMPIANTI - AGIP

E. AGRICULTURAL APPLICATIONS AGIP - CTIP - SOLAR

F. FLAT PLAT SELECTIVE COLLECTORS JOANNES

G. COLLECTORS FOR 100-120 DEGREES JOANNES
WORKING TEMPERATURES.

B. SOLAR THERMAL

A. FEASIBILITY AND ECONOMIC STUDIES SNAM-PROGETTI
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FOR SOLAR ELECTRIC POWER PLANT ANSALDO
(DISTRIBUTED AND CENTRAL TOWER)

B. OPTIMIZATION CRITERIA FOR THERMAL ANSALDO
CYCLE (FLUIDS AND CYCLE CHARACTERISTICS)

C. METHODOLOGY AND OPTIMIZATION OF ANSALDO - GALILEO
MIRROR FIELD DISTRIBUTION SNAM-PROGETTI

D. HIGH TEMPERATURE THERMAL STORAGE ENEL - AGIP -
SNAM PROGETTI

E. RECEIVER'S CHARACTERISTICS AND ANSALDO
DESIGN. SNAM PROGETTI

F. MIXING OF SOLAR ENERGY WITH CON- ANSALDO
VENTIONAL SOURCES SNAM PROGETTI

G. MIRROR FIELD MAINTENANCE ENEL

H. SITING OF CENTRAL TOWER SOLAR ENEL
ELECTRIC PLANT

I. DEVELOPMENT OF LINEAR PARABOLIC ANSALDO - FIAT
COLLECTORS (MATERIALS, SURFACE
CHARACTERISTICS, ETC.

J. LARGE-DIMENSION OPTICAL STRUCTURES MONTEDISON-SISTEMI

K. OPTICAL CONCENTRATORS USING REFLECT- " "
ING SYSTEMS OR FRESNEL LENSES

L. SOLAR TRACKING " "

M. HARDWARE AND SOFTWARE FOR CONTROL AND " "
INTERACTION WITHIN THE SOLAR
FACTORY (SOLAR PLANT AND USERS) INSTRU-
MENTATION IN MOBILE UNITS FOR SOLAR DATA
LOGGING.

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ACTION EUR-12

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TO SECSTATE WASHDC PRIORITY 4487
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DOE FOR BORRE VANDERRYIN, ALBERT AND ROBERTSON (IA)

PASS ALSO USDOC

C. PHOTOVOLTAIC

A. TECHNOLOGY ASSESSMENT OF PHOTOVOLTAIC CONSORZIO
DEVELOPMENT.

B. ACTIVITIES IN THE DEVELOPMENT OF DIFFERENT "
PHOTOVOLTAIC CELLS AND EXPECTED RESULTS.

C. RESULTS OF POSSIBILITIES STUDIES ON "
PHOTOVOLTAIC SYSTEMS (WITH/WITHOUT CON-
CENTRATION FOR AUTONOMOUS ELECTRICITY
PRODUCTION AND GRID CONNECTION)

D. SUN TRACKER FOR PHOTOVOLTAIC SYSTEMS "

E. THE EFFECT OF IMPURITIES AND DEFECTS ON "
THE EFFICIENCY OF SOLAR CELLS: A SUTDY
OF THE SYNERGIC EFFECTS BETWEEN
IMPURITIES OF DIFFERENT ELECTRONEGATIVITY
OF THE IMPURITIES AND POINT DEFECTS.

F. A STUDY AIMING AT OBTAINING SOLAR GRADE "
SILICON WITH THE ARC FURNACE, STARTING
FROM UPGRADED METALLURGICAL SILICON.

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G. ONE-DIRECTION SOLIFICATION PROCESS USING " THE HEAT EXCHANGE TECHNOLOGY, WITH THE FINAL OBJECTIVE OF OBTAINING MONOCRYSTALS OR LARGE CRYSTALS FOR SOLAR CELLS.

H. THIN FILM DEVELOPMENTS
UNQTE.

3. WE HAVE NOT RPT NOT BEEN INFORMED OF THE NAMES OF THE VISITNG EXPERTS, WHO WILL NUMBER 10-12. FYI, WE WOULD BRIEFLY IDENTIFY THE COMPANIES REPRESENTED AS FOLLOWS:

PHOEBUS COMPANY SET UP BY ENEL (NATIONAL ELECTRICITY UTILITY) TO TEST SOLAR SYSTEMS AND COMPONENTS,
AGIP STATE-OWNED ENERGY SUPPLY COMPANY (PART OF ENI GROUP)

TERMOMECCANICA MANUFACTURING CONGLOMERATE
ANSALDO FOSSIL, NUCLEAR AND SOLAR DESIGN AND CONSTRUCTION

JOANNES HOUSEHOLD APPLIANCE MANUFACTURER
CTIP SOLAR SUBSIDIARY OF A CONSULTING ENGINEERING FIRM.

SNAM-PROGETTI AN ENI-RELATED CONSTRUCTION CO.

MONTEDISON SUBSIDIARY OF THE PARTLY STATE-OWNED SISTEMI CHEMICAL COMPANY.

CONSORZIO A NEW CONSORTIUM RECENTLY FORMED TO DEVELOP PHOTOVOLTAICS, LED BY ENEL.

4. ACTION REQUESTED: PLEASE SET UP VISITS AS APPROPRIATE, INFORMING BOTH THE MISSION AND THE ITALIAN EMBASSY IN WASHINGTON OF SCHEDULE. IT IS OUR UNDERSTANDING THAT THE ITALIAN EMBASSY WILL HANDLE TRAVEL AND HOTEL ARRANGEMENTS, THOUGH CLEARLY THEY MAY NEED SOME HELP FROM DOE ON HOW TO GET TO SOME LOCATIONS, NEARBY HOTELS, ETC. WE WOULD SUGGEST USING 7-8 SEPTEMBER FOR CONSULTATIONS IN WASHINGTON, THE WEEKEND FOR TRAVEL, AND THE
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NEXT WEEK FOR VISITS TO LABS, SITES, COMPANIES, ETC. HOLMES

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